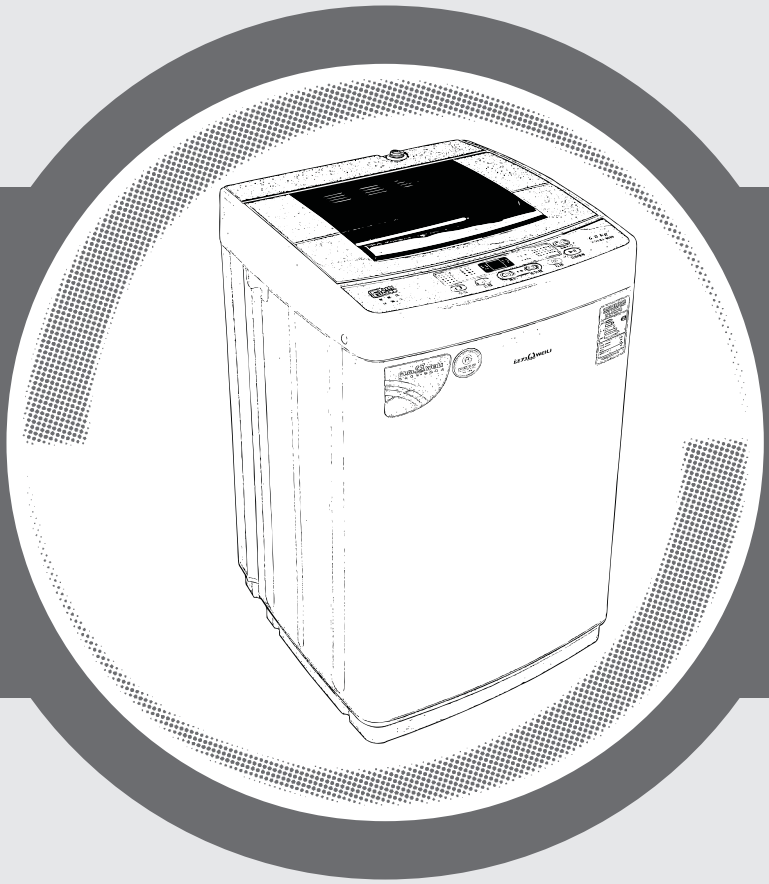
DAEWOO ELECTRONICS

SERVICE MANUAL

Automatic Washing Machine

Model:DWF-270G



Caution:

In this Manual, some parts can be changed for improving,their performance without notice in the parts list. So, if you need the latest parts information, please refer to the Service Information Center (http://www.weili.com.cn).

WASHING MACHINE

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1. SPECIFICATIONS

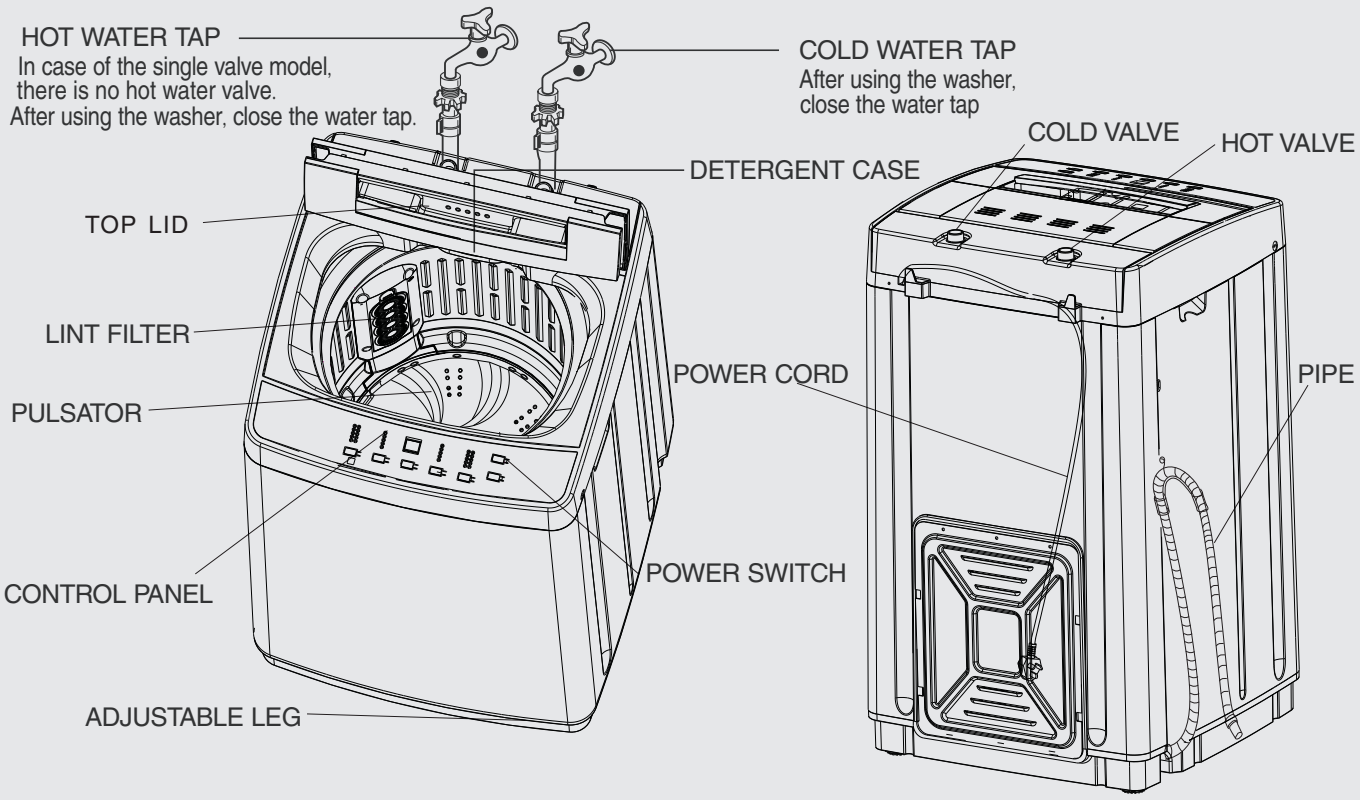
NO.	ITEM		DWF-270G	
1	POWER SOURCE		AVAILABLE IN ALL LOCAL AC VOLTAGE AND CYCLE	
2	POWER CONSUMPTION		50Hz	340W
			60Hz	340W
3	MACHINE WEIGHT		NON-PUMP	27.8Kg
			PUMP	28.8Kg
4	DIMENSION (WXHXD)		545 X 906 X 555	
5	WASHING COURSE		FULL AUTOMATIC 8 COURSE (NORMAL,HEAVY,SPEEDY,GENTLE,TUB SELF-CLEAN, AIR DRY,WATER SAVING,FINE PURIFICTION)	
6	WATER CONSUMPTION		145 L	
7	WATER LEVEL SELECTOR		10	55 L
			9	50 L
			8	45 L
			7	40L
			6	36 L
			5	32 L
			4	29 L
			3	25 L
			2	21L
			1	16 L
8	OPERATING WATER PRESSURE		0.03~0.78MPa	
9	REVOLUTION PER MINUTE	50Hz	WASH : 125 - 140 RPM, SPIN : 630 - 660 RPM	
		60Hz	WASH : 125 - 140 RPM, SPIN : 630 -660 RPM	
10	PULSATOR(mm)		6WINGS(∅345mm)	
11	WATER LEVEL CONTROL		ELECTRONICAL SENSOR	
12	GEAR MECHANISM ASS`S		PLANET GEAR	
13	LINT FILTER		YES	
14	FUNCTION OF SOAK WASH		YES	
15	ALARM SIGNAL		YES	
16	RESIDUAL TIME DISPLAY		YES	
17	AUTO. WATER SUPPLY		YES	
18	AUTO RE-FEED WATER		YES	
19	AUTO POWER OFF		YES	

2. STRUCTURE OF THE WASHING MACHINE

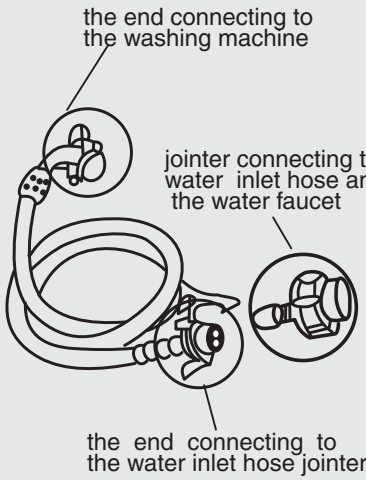
The parts and features of your washer are illustrated on this page.
Become familiar with all parts and features before using your washer.

NOTE

♥The drawing in this book may vary from your washer model. They are designed to show the different features of all models covered by this book, Your model may not include all features.



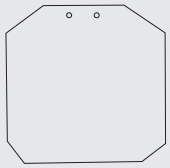
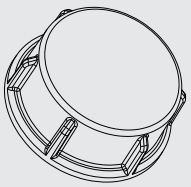
Accessories


the end connecting to the washing machine
jointer connecting the water inlet hose and the water faucet
the end connecting to the water inlet hose jointer

water inlet hose (2pcs)

Water inlet hose jointer (2pcs)

(The two water inlet hose components are the same and there's no different on cool/warm water during using)

Under cover(1pcs)	tapping screws(2pcs)
	
Inlet valve cap(including sealing plate)(1suit)	
	

3. DIRECTIONS FOR INSTALLATION AND USE

INSTALLING PLACE

Install the washer on a horizontal solid floor. If the washer is installed on an unsuitable floor, it could make considerable noise and vibration.

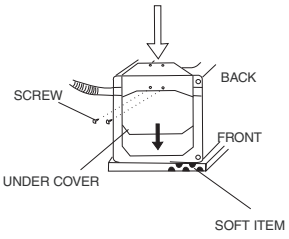
Keep the machine body more than 25cm apart from the wall surface. It will make easy cleaning the drain filter which is equipped at the back side of it. And if it comes into contract vibration may occur.

Never install in these places

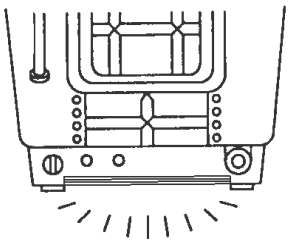
- The place where it would be exposed to direct sunlight.
- The place nearby a heater or heat appliance.
- The place where it would be supposed to be frozen in winter.
- The kitchen with coal gas and a damp place like a bathroom.

Installation Of the COVER UNDER (Noise Insulation Plate)

1 The packing box opened, there is a noise insulation plate at the bottom of the back



2 Push the noise insulation plate into the end, which decrease the noise made by this washer.

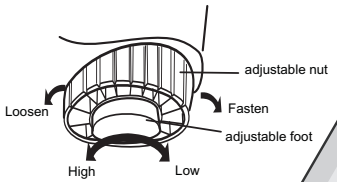


* The drawing of the COVER UNDER is variant from your model

How To Install On An Inclined Place

1 Horizon Setting

After controlling the height by turning the adjustable leg, let the washer put down to the ground.



2 Check the Horizon Status

Check the position of tub above the center of the washer.

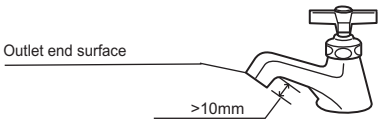
NOTES

The openings must not be obstructed by carpeting when the washing machine is installed on a carpeted floor.

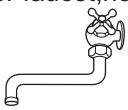
HOW TO CONNECT THE INLET HOSE

Confirm the water faucet

Water faucet,suitable



Water faucet,not suitable



It is required that the front end shall be longer than 10cm.
The outlet end surface of the faucet shall be flat and smooth. If not please file it to avoid leakage.

Connection between the water inlet hose jointer and the water faucet

1.Press the lower end of the lock lever and push down the slider. Take off the water inlet hose jointer from the water inlet hose component. See to Figure 1.

2.Loosen the screw till the water faucet can be accessed. Put the jointer of the water inlet hose on the faucet. See to Figure 2. (If the faucet is too large and the jointer can not be set on the water faucet, please loosen the four screws and take out the bushing in the jointer. See to the figure.)

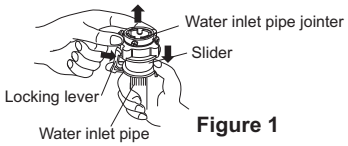


Figure 1

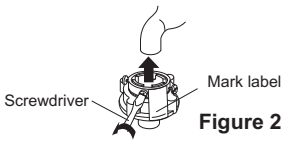


Figure 2

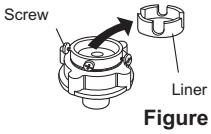


Figure 3

3.Fasten the four screws evenly. See to Figure 4.

4.Take off the nameplate. Twist the fastening nut as per the indication of the figure to seal up the outlet end surface of the faucet. See to Figure 5.

Remarks: Before installation, the threading is 4mm above the upper surface of the nut. After installation, the threading is 2mm above the upper surface of the nut. See to Figure 6.

Figure 4

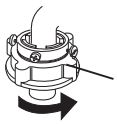


Figure 5

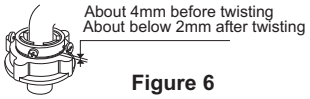
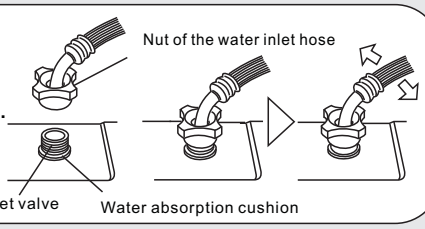


Figure 6

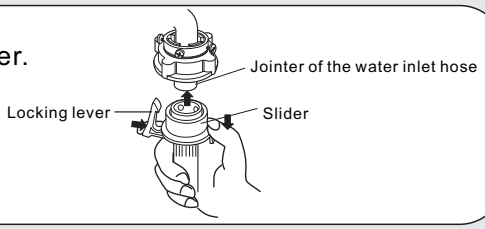
Connection between the water inlet hose and the washing machine

1.Do not take off the water absorption cushion. Please check if the cushion is dropped or damaged before each usage. If it happens please contact our after-sale department immediately.
2.Put the nut of the water inlet hose on the valve jointer.
3.Fasten the nut. Swing it gently to confirm if it's suitable.



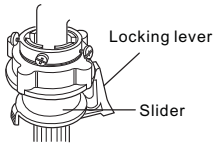
Connection between the jointer of the water inlet hose and the water inlet hose

1.Push down the slider. Insert the water inlet hose into the jointer.
2.Hang the lock lever to the jointer.Release the slider till a click sound is heard.



Dismantle the water inlet hose

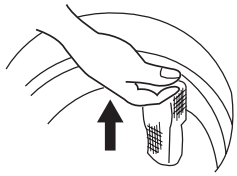
1.Close the water faucet.
2.Press the locking lever. Push down the slider. Then pull of the water inlet hose. If the machine is used more than once every week, the jointer of the water inlet hose can be kept on the faucet to prevent damaging the fixing screw.



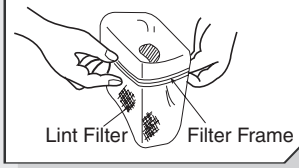
HOW TO CLEAN

CLEANING THE LINT FILTER

1 Pull the Filter frame upward.



2 Turn the lint filter inside out, wash to the lint off with water.



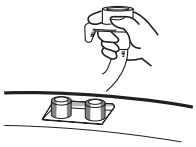
3 Return the filter as it was, and insert the filter frame into the slot.

CLEANING THE WATER INLET FILTER

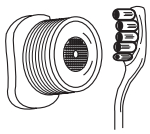
- Clean the filter when water leaks from the water inlet.

1 Pull the power plug out before cleaning it.

2 Turn off the water supply to the washer and sperate the inlet hose.

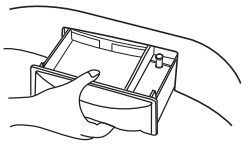


3 Remove the dirt from the inlet filter with a brush.



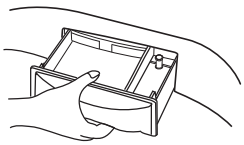
CLEANING THE **DETERGENT BOX**

1 pull the detergent box up slantingly and gently.



2 Clean the detergent box with water after dismantling it

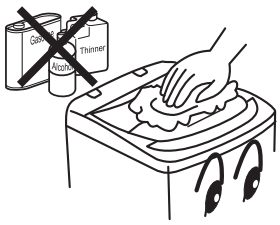
3 put the detergent box down slantingly and then push in.



CLEANING THE CABINET

If the cabinet is dirty, wipe it with wet cloth

- Do not flush it directly with water.
- Wipe it with neutral detergent.
- Do not wipe it with thinner, petrol, alcohol etc.



4. FEATURE AND TECHNICAL EXPLANATION

FEATURE OF THE WASHING MACHINE

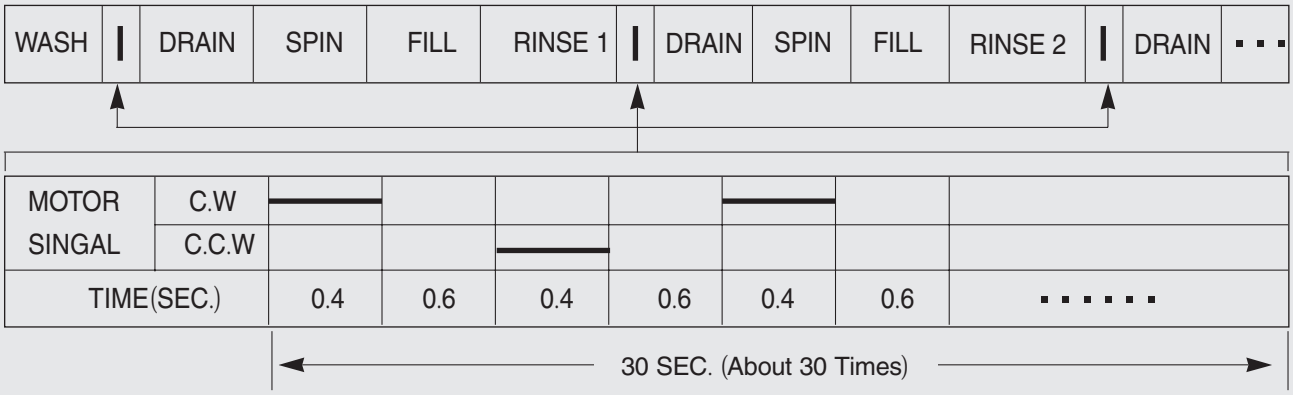
- The first applying Radical Technology in the world....go beyond washing, sterilize your clothes and deodorize a bad smell.
- Quiet washing through the innovational low-noise design.
- The adoption of the water currents to adjust the unbalanced load.
- Transparency display window.
- Self-cleaning tub.
- Air-dry function.
- Fuzzy function.

WATER CURRENT TO ADJUST THE UNBALANCED LOAD

It is a function to prevent eccentricity of the clothes after wash by rotating pulsator C.W and C.C.W for 30 seconds.(except for the course “soft” and “tub self-clean”.)

EFFECT
It reduces vibration and noise effectively while spinning.

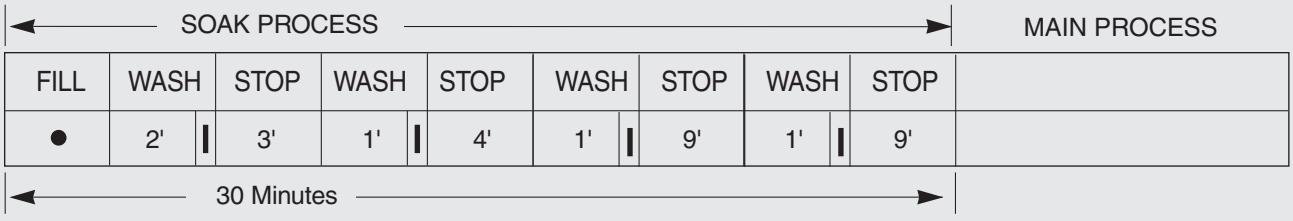
WATER FLOW



FUNCTION FOR SOAK WASH

DISPLAY THE RESIDUAL TIME
When the SOAK WASH is selected, the total wash time increases because 20 minutes(“normal” , “self-clean” and “water saving” course) or 30 minutes(”heavy” and “fine purifition” course) for soak process are added to the time of main process.

PROGRESS



NOTES " | " mark indicates the operation of the water currents to adjust the unbalanced load.

AUTOMATIC WATER SUPPLY SYSTEM FOR WASH

The water level would be lowered because the washings absorbs water at the beginning of washing. Therefore, after some secs, the operation is interrupted to check the water level, and then the water is supplied again until the selected water level is reached.

AUTOMATIC DRAINNING TIME ADJUSTMENT

This system adjusts the draining time automatically according to the draining condition.

Draining condition	Good draining	The washer begins spin process after drainage.
	Bad draining	Draininig time is prolonged.
	No draining	Program is stopped and gives the alarm.

FUNCTIONAL PRINCIPLE

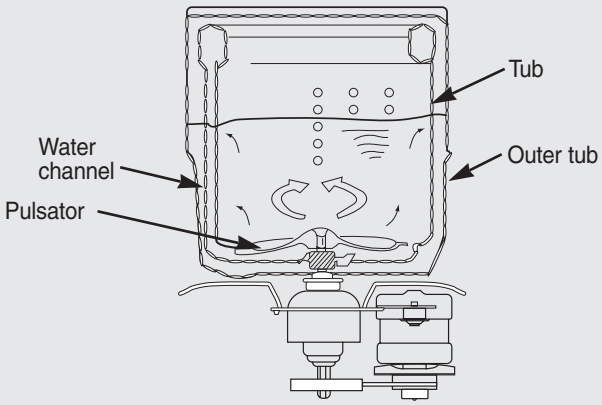
The micom can remember the time from the begining of drain to reset point when the pressure switch reaches to"OFF"point

Drain Time	Movement of the Program
Less than 4 minutes	Continue draining
More than 4 minutes	Program stops and gives the alarm with E1 blinked on display lamp.

CIRCULATING-WATER COURSE AND LINT FILTER

CIRCULATING-WATER

The washing and rinsing effects have been improved by adopting the water system in which water in the tub is circulated in a designed pattern.
When the pulsator rotates during the washing or rinsing process, the water below the pulsator fans creates a water currents as shown in figure.
The water is then discharged from the upper part of the tub through the water channel.
About 40 L/min. water is circulated at the "8" water level, standard wash load and standard water currents.



RESIDUAL TIME DISPLAY

When the START/PAUSE button is pressed, the residual time (min.) is displayed on the time indicator, and it will be counted down according to process.
When operation is finished, the TIME INDICATOR will light up 0 .

5. DIRECTIONS FOR DISASSEMBLY AND ADJUSTMENT

Warning

BEFORE ATTEMPTING TO SERVICE OR ADJUST ANY PART OF THE WASHING MACHINE, DISCONNECT THE POWER CORD FROM THE ELECTRIC OUTLET.

KEY POINTS IN DISASSEMBLY

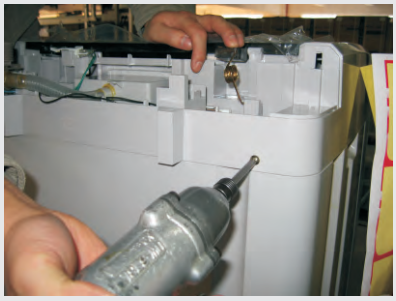
1) GENERAL ATTENTION

- Be sure to pull off the power plug in disassembly or maintenance.
- Use stipulated crimp terminals in connecting the wires between the conducting wires as far as possible, and fix with suitable tools, and insulate with insulation tape completely.
- In inserting the conducting wires, be sure to plug the pins to the root and make it hard to be pulled out.
- If welding is needed, be careful not to touch the plastic or other insulation parts with the iron.
- When connecting the wires, be sure not to make the wire touch the mobile parts like the belt, radiating pulley and jib etc., and the sharp protruding parts and the parts with high temperature (motor).Connect and fix the wires as per their original mode.
- If there's metal object at the wire fixing point, be sure to insulate with insulation materials. Take care of the screws in order to use them in installation.

2)POINTS OF ATTENTION IN USAGE OF ELECTRIC COMPONENTS

- In case that the power is on, the earthing circuit of the computer sequencer can have a high voltage to earth. Take care not to get electric shock.
- Store the computer sequencer at shading and dry places. Avoid direct sunlight.

METHOD OF DISASSEMBLING THE CONTROL PANEL

1. Open the back cover. Loosen the inner wiring. 	2. Loosen the screws used to install the control panel seat(rear and side) .Lift the rear upwards. Loosen the control panel seat from the inlay of the cabinet. Then move it forwards several times. 	3.Turn the control panel seat backwards to open it gently. Do not open by force.

ATTENTION:

- Do not lift the control panel seat by force, otherwise the safety switch control rod may get transformed, and the jointer part of the connecting pipe of the water level sensor may be loosened, therefore influence the normal operation of the microswitch and water level sensor.
- After opening the control panel seat, hold it with one hand or lean it on supporter like the wall. Do not put it down.

POINTS OF ATTENTION IN ASSEMBLY

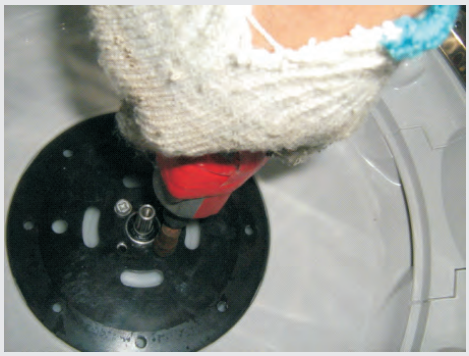
- Fix the wiring in the control panel seat to its original position. Do not make it touch sharp corner and mobile position. The space surrounding the computer sequencer is rather narrow. Please dispose it carefully and do not make the transformer press the wires.
- Confirm that the control panel seat is installed to proper position of the Cabinet.

GEAR MECHANISM ASS'Y REPLACEMENT

1 Raise the control panel seat on the outer cabinet.
2 Loosen four screws mounting outer tub cover and remove outer tub cover from the tub ass'y.

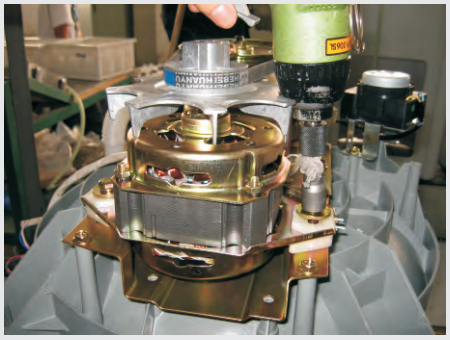
3 Loosen the pulsator mounting screw and remove the pulsator.

4 Remove the four screws by screw drive.



5 Remove the tub ass'y.

6 Lay the front of the washing machine on the floor.
7 Remove four screws then remove gear protect.
8 Remove the V-belt.
9 Remove 2 special bolts of motor, then remove motor.



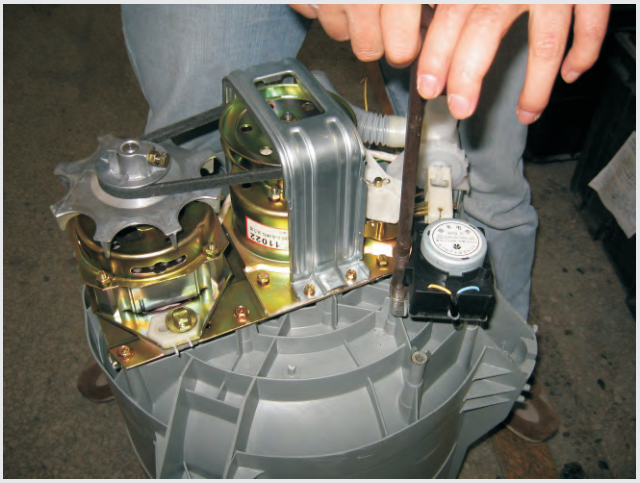
10 Remove several special bolts of gear mechanism ass'y by using a box wrentch.

11 Pull out the gear mechanism ass'y.

DRAIN MOTOR AND VALVE REPLACEMENT

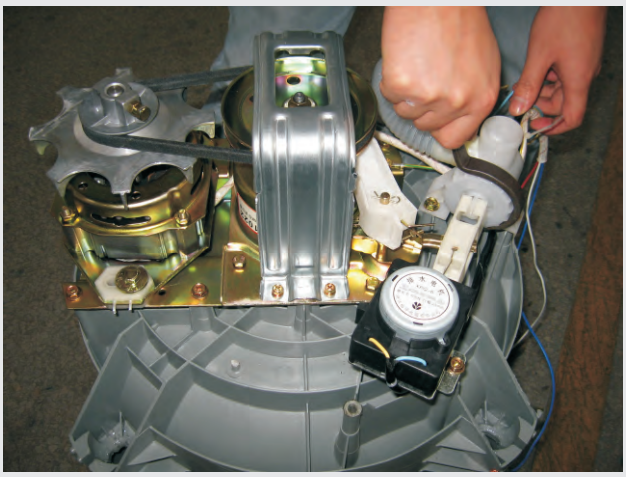
(**NON PUMP MODEL**)

1 Lay the front of the washer on the floor.
2 Loosen two special screw of drain motor.



3 Take out the wire of drain motor from the braket.
4 Separate the drain motor from the base.

5 Turn the valve by using screw driver as shown in picture.



6 Remove the valve lid from the valve drain ass'y.

6. TROUBLE SHOOTING GUIDE

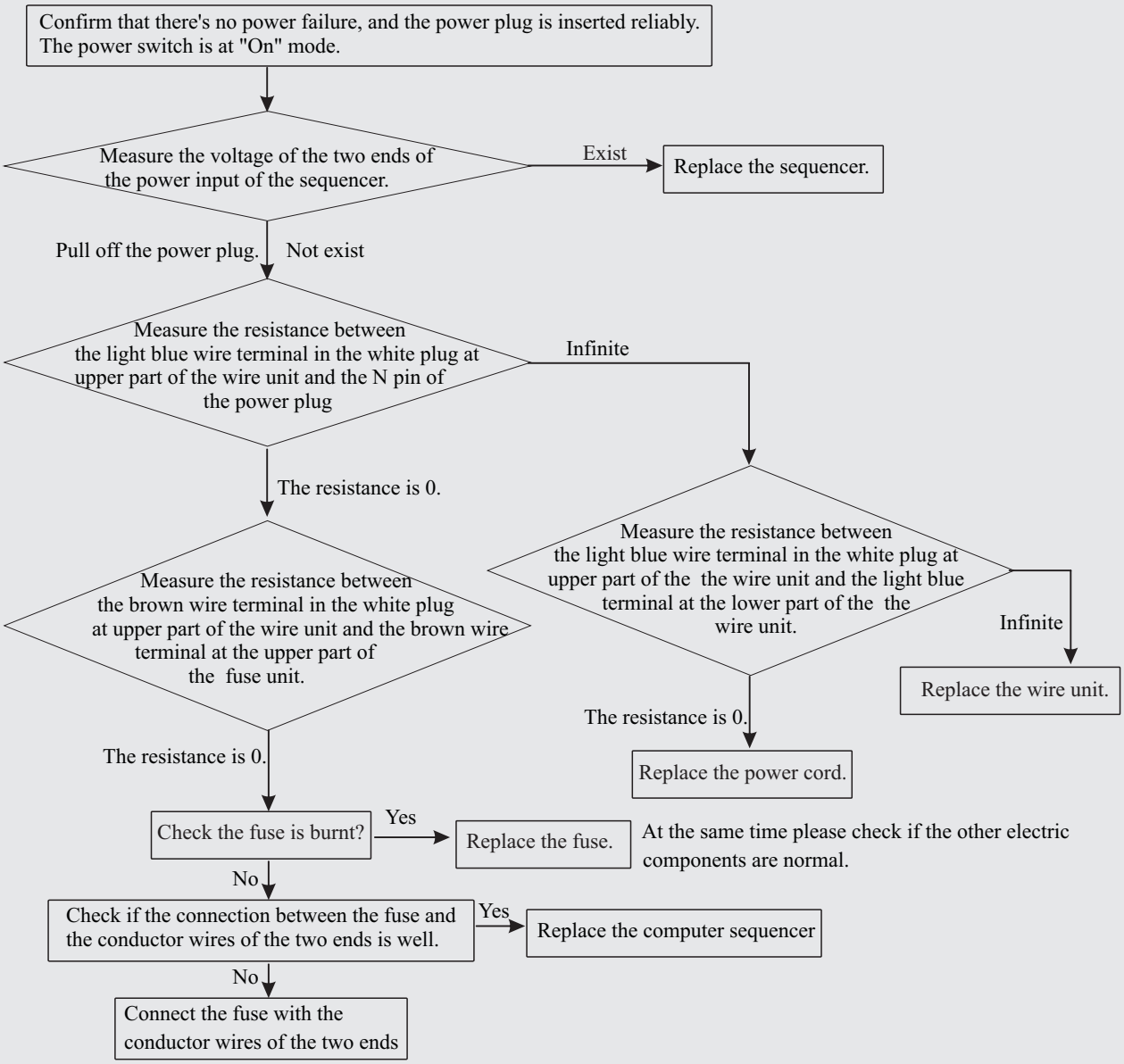
TEST PROGRAM (TEST WITHOUT WATER)

Push and hold the "program" and "cold/warm/hot water" buttons, then push down the "power" button to enter test program. Push the "process", The program will switch as follow:

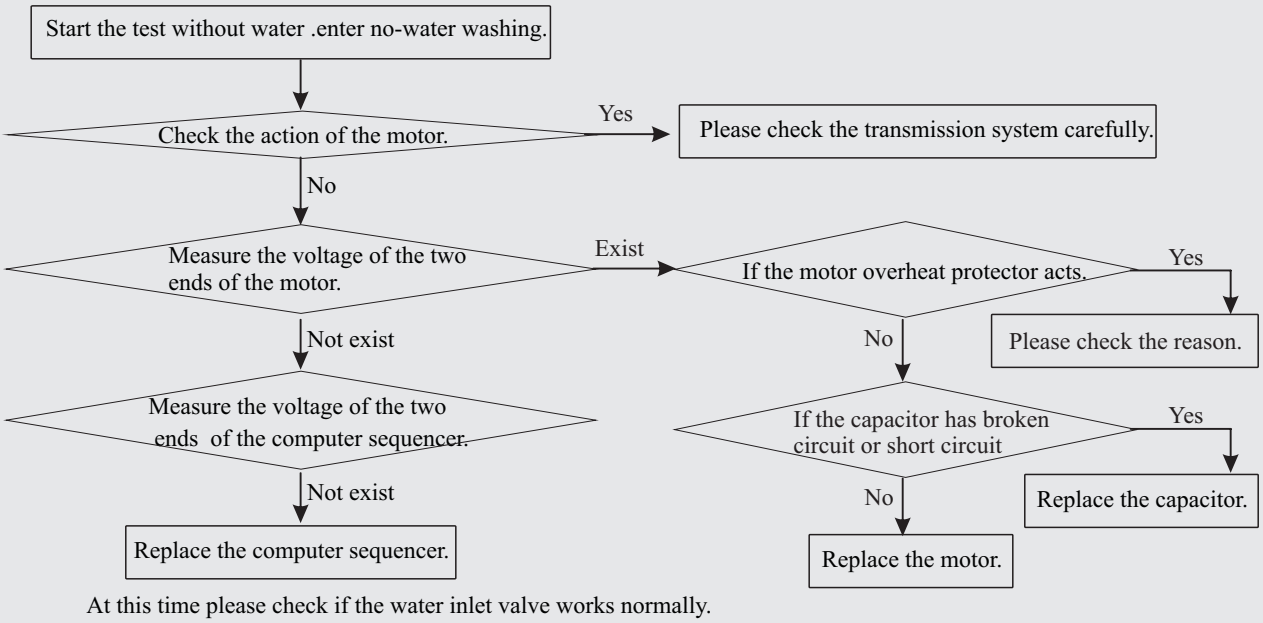
Test A → Test B → Test C → Test A

Test name	Test content
Test A	The numeral tube shows “C1”,all of the indicators are on.After 3 seconds the the numeral tube shows “88” and the indicators flash 3 times as 1Hz. At the same time the buzzer rings 3 times (once per second). The power is switched off automatically after finishing.
Test B	The numeral tube shows “C2”, the indicators of the water level “5",”wash" and “normal”are on. After 3 seconds the numeral tube shows “20”,and the indicator “wash" flashes. The washer perform the corresponding current for 20 minutes. The power is switched off automatically after finishing. (during running, you can change the current selection)
Test C	The numeral tube shows “C3”, the indicators of ”spin"and “normal”are on. After 3 seconds the numeral tube shows “5”,and the indicator “spin" flashes. The washer spins 5 minutes. Then the power is switched off automatically after finishing.

CONCERNING NO ACTION (THE INDICATOR IS OFF)

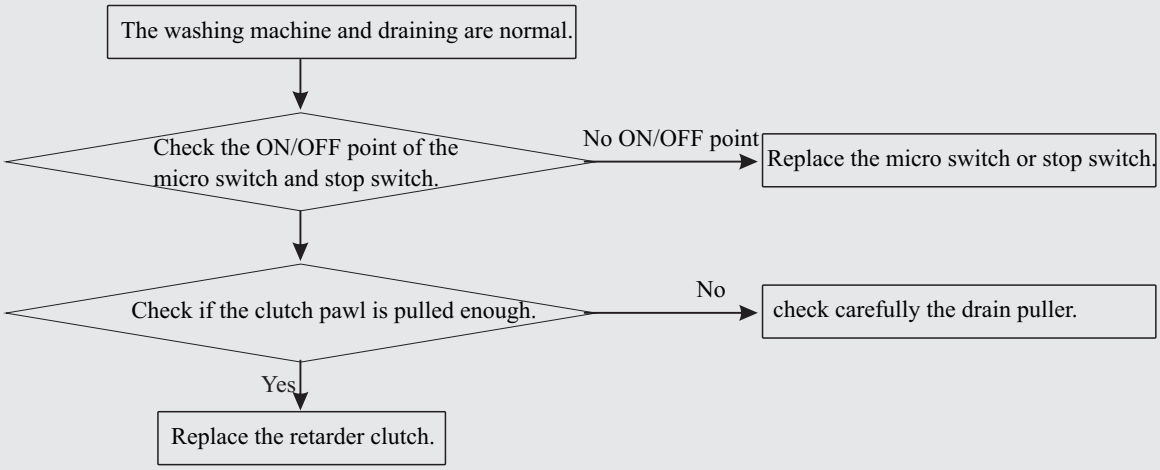

Confirm that there's no power failure, and the power plug is inserted reliably. The power switch is at "On" mode.
Measure the voltage of the two ends of the power input of the sequencer.
Exist
Replace the sequencer.
Pull off the power plug.
Not exist
Measure the resistance between the light blue wire terminal in the white plug at upper part of the wire unit and the N pin of the power plug
Infinite
The resistance is 0.
Measure the resistance between the brown wire terminal in the white plug at upper part of the wire unit and the brown wire terminal at the upper part of the fuse unit.
Measure the resistance between the light blue wire terminal in the white plug at upper part of the the wire unit and the light blue terminal at the lower part of the the wire unit.
Infinite
Replace the wire unit.
The resistance is 0.
Replace the power cord.
The resistance is 0.
Check the fuse is burnt?
Yes
Replace the fuse.
At the same time please check if the other electric components are normal.
No
Check if the connection between the fuse and the conductor wires of the two ends is well.
Yes
Replace the computer sequencer
No
Connect the fuse with the conductor wires of the two ends

CONCERNING NO ROTATION IN WASHING

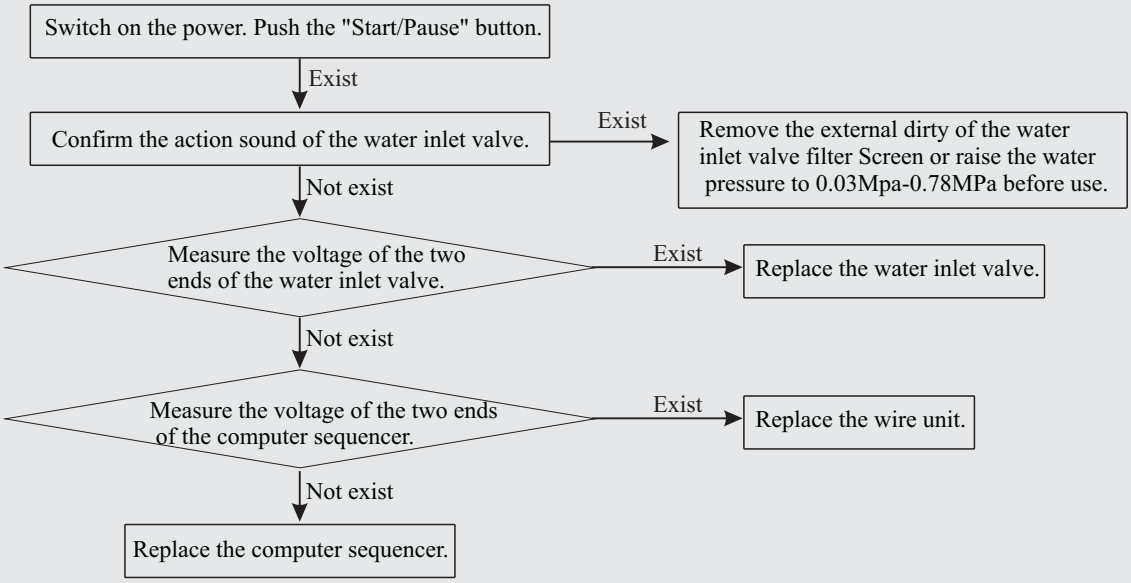

Start the test without water .enter no-water washing.
Check the action of the motor.
Yes
Please check the transmission system carefully.
No
Measure the voltage of the two ends of the motor.
Exist
If the motor overheat protector acts.
Yes
Please check the reason.
No
Not exist
Measure the voltage of the two ends of the computer sequencer.
If the capacitor has broken circuit or short circuit
Yes
Replace the capacitor.
No
Not exist
Replace the computer sequencer.
Replace the motor.

At this time please check if the water inlet valve works normally.

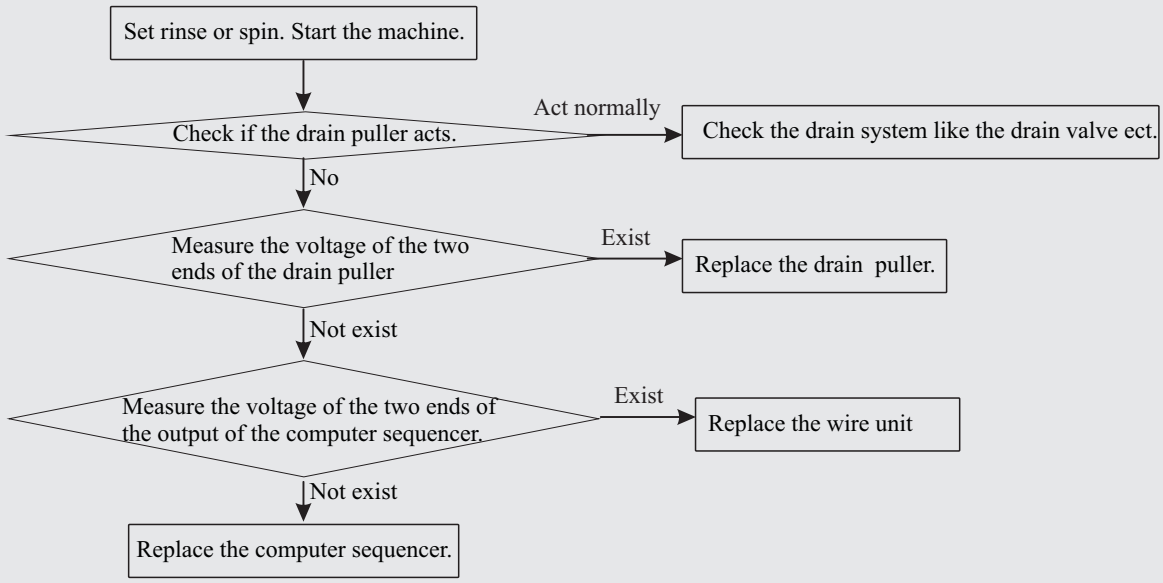
CONCERNING NO SPINNING


The washing machine and draining are normal.
Check the ON/OFF point of the micro switch and stop switch.
No ON/OFF point
Replace the micro switch or stop switch.
Check if the clutch pawl is pulled enough.
No
check carefully the drain puller.
Yes
Replace the retarder clutch.

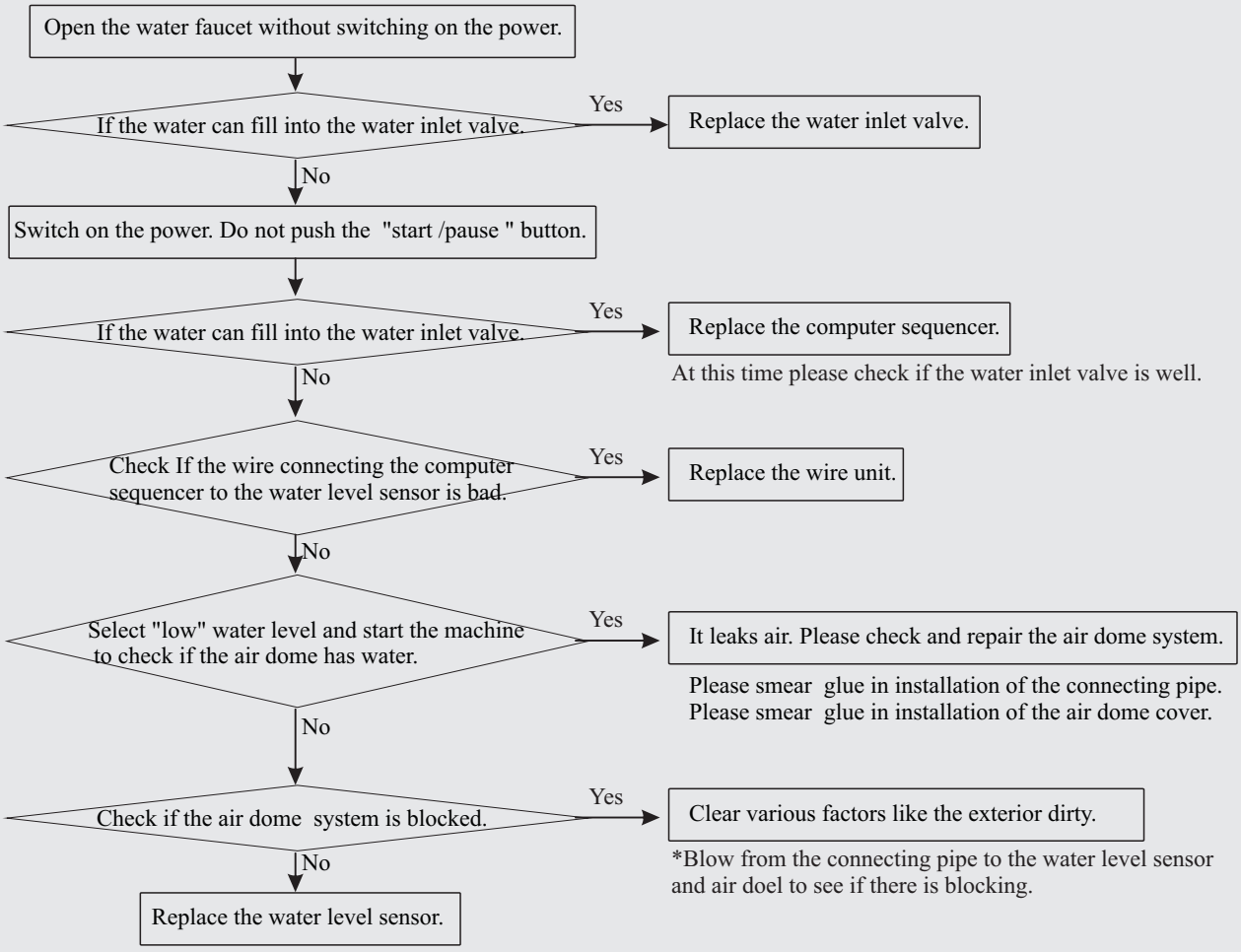
CONCERNING NO WATER FILLING


Switch on the power. Push the "Start/Pause" button.
Exist
Confirm the action sound of the water inlet valve.
Exist
Remove the external dirty of the water inlet valve filter Screen or raise the water pressure to 0.03Mpa-0.78MPa before use.
Not exist
Measure the voltage of the two ends of the water inlet valve.
Exist
Replace the water inlet valve.
Not exist
Measure the voltage of the two ends of the computer sequencer.
Exist
Replace the wire unit.
Not exist
Replace the computer sequencer.

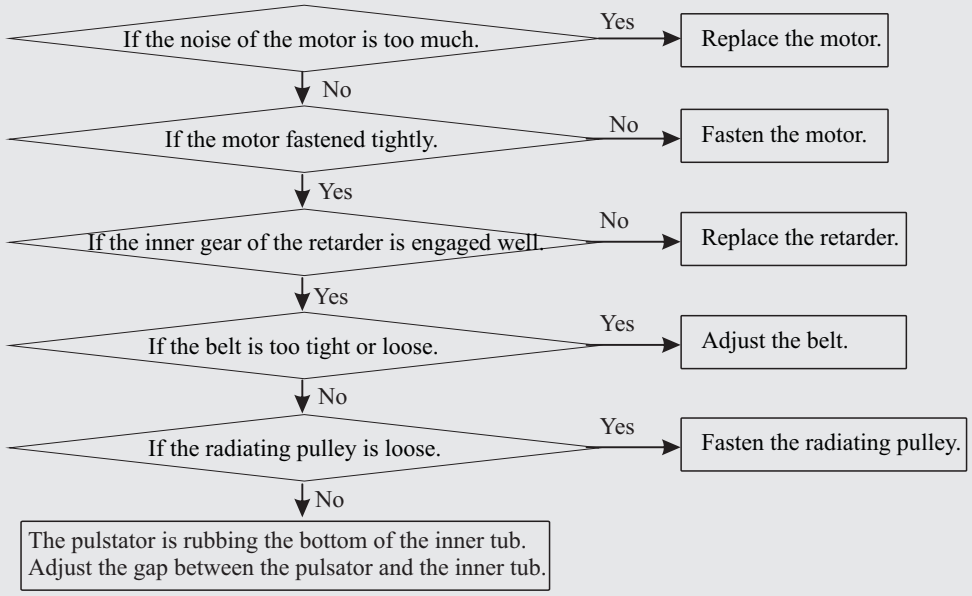
CONCERNING NO DRAINING


Set rinse or spin. Start the machine.
Check if the drain puller acts.
Act normally
Check the drain system like the drain valve ect.
No
Measure the voltage of the two ends of the drain puller
Exist
Replace the drain puller.
Not exist
Measure the voltage of the two ends of the output of the computer sequencer.
Exist
Replace the wire unit
Not exist
Replace the computer sequencer.

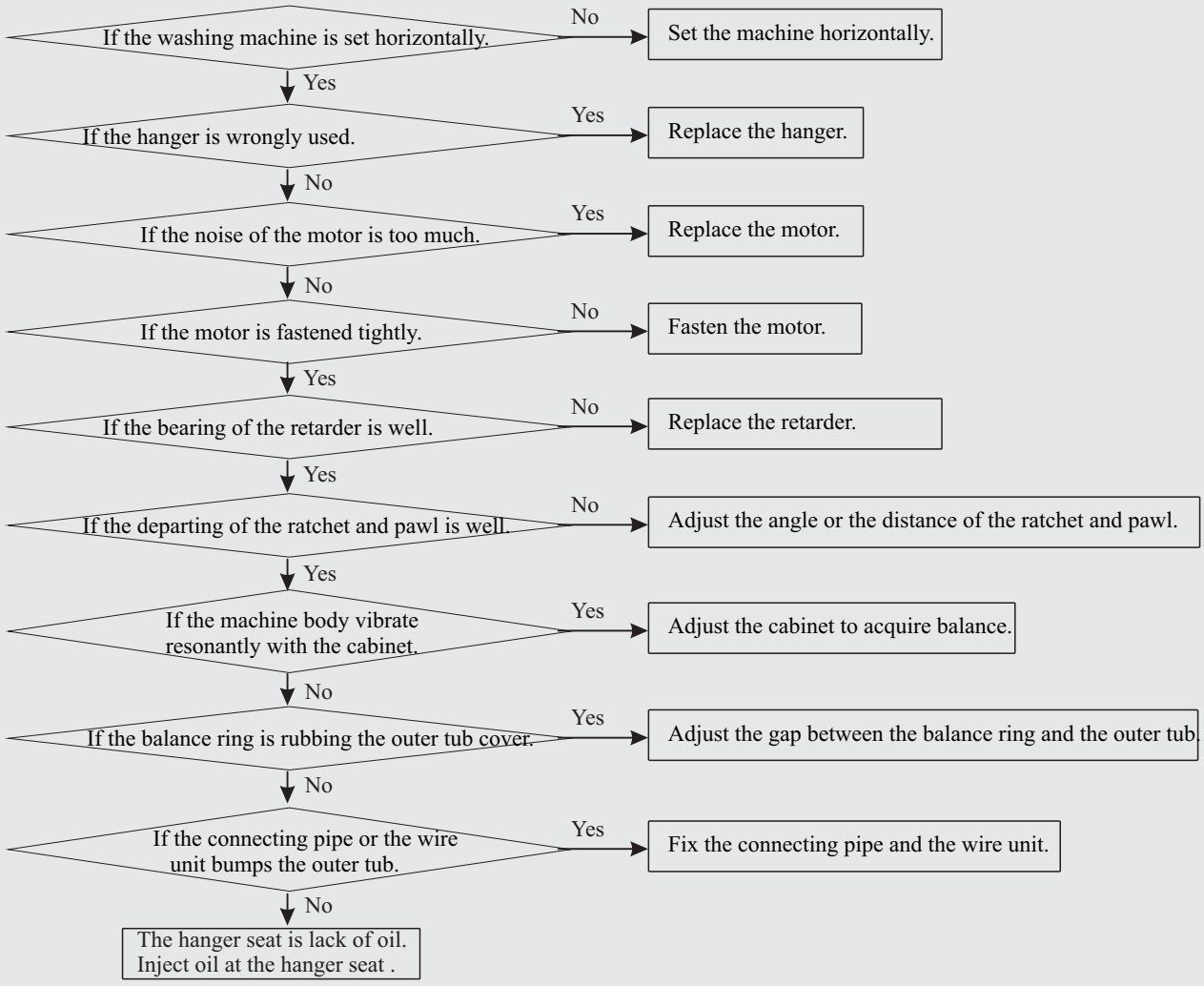
CONCERNING KEEP FILLING WATER


Open the water faucet without switching on the power.
If the water can fill into the water inlet valve.
Yes
Replace the water inlet valve.
No
Switch on the power. Do not push the "start /pause " button.
If the water can fill into the water inlet valve.
Yes
Replace the computer sequencer.
At this time please check if the water inlet valve is well.
No
Check If the wire connecting the computer sequencer to the water level sensor is bad.
Yes
Replace the wire unit.
No
Select "low" water level and start the machine to check if the air dome has water.
Yes
It leaks air. Please check and repair the air dome system.
Please smear glue in installation of the connecting pipe.
Please smear glue in installation of the air dome cover.
No
Check if the air dome system is blocked.
Yes
Clear various factors like the exterior dirty.
*Blow from the connecting pipe to the water level sensor and air doel to see if there is blocking.
No
Replace the water level sensor.

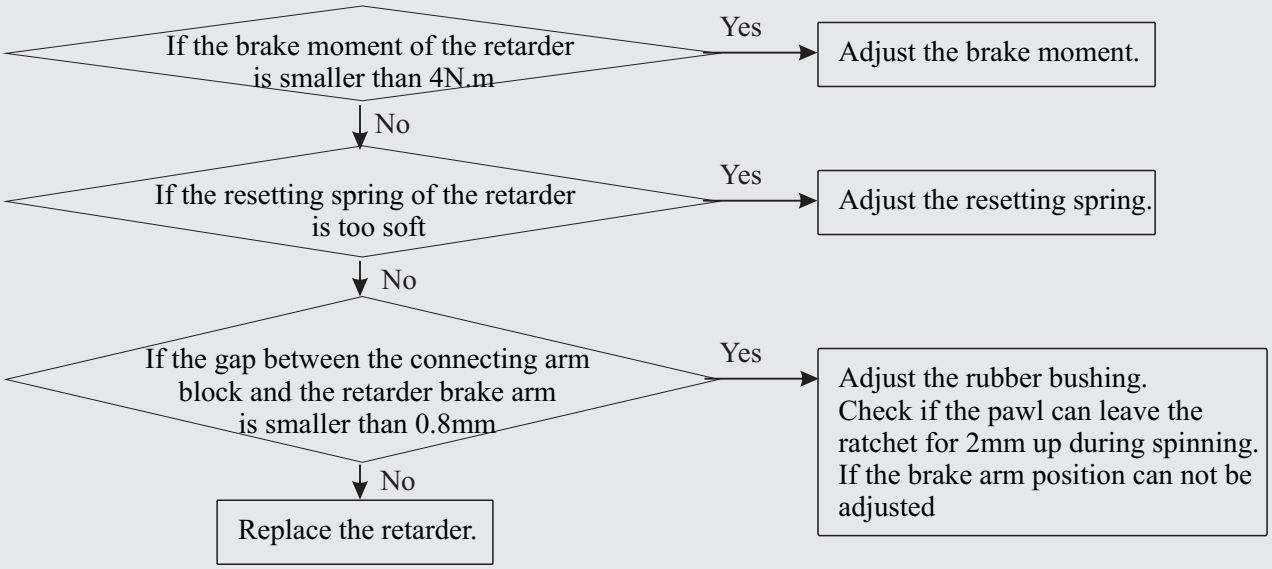
CONCERNING TOO MUCH NOISE IN WASHING



CONCERNING TOO MUCH NOISE IN SPINNING


If the washing machine is set horizontally.
No
Set the machine horizontally.
Yes
If the hanger is wrongly used.
Yes
Replace the hanger.
No
If the noise of the motor is too much.
Yes
Replace the motor.
No
If the motor is fastened tightly.
No
Fasten the motor.
Yes
If the bearing of the retarder is well.
No
Replace the retarder.
Yes
If the departing of the ratchet and pawl is well.
No
Adjust the angle or the distance of the ratchet and pawl.
Yes
If the machine body vibrate resonantly with the cabinet.
Yes
Adjust the cabinet to acquire balance.
No
If the balance ring is rubbing the outer tub cover.
Yes
Adjust the gap between the balance ring and the outer tub.
No
If the connecting pipe or the wire unit bumps the outer tub.
Yes
Fix the connecting pipe and the wire unit.
No
The hanger seat is lack of oil.
Inject oil at the hanger seat .

CONCERNING TIME-OUT IN BRAKE


If the brake moment of the retarder is smaller than 4N.m
Yes
Adjust the brake moment.
No
If the resetting spring of the retarder is too soft
Yes
Adjust the resetting spring.
No
If the gap between the connecting arm block and the retarder brake arm is smaller than 0.8mm
Yes
Adjust the rubber bushing.
Check if the pawl can leave the ratchet for 2mm up during spinning.
If the brake arm position can not be adjusted
No
Replace the retarder.

TROUBLE-SHOOTING TABLE

Phenomenan	The reason	How to settle
The draining does not work, or the speed of draining is too slow ,The numeral tube shows “E1”	● Is the drain hose put down? ● Is the drain hose blocked by foreign material?	● Put down the drain hose. ● Open and close the top lid once.
The machine stops running In spinning. The numeral tube shows “E2”	The top lid is not closed.	Close the top lid.
The safety switch acts. The spinning can not work (after amending twice automatically) The numeral tube shows “E3”	● Are the laundries put slantingly? ● Is the machine slanting?	● Re-order the laundries. Close the top lid. ● Level the machine in right position. Open and close the top lid once.
Not supplying water or the speed is too slow （the suitable water level doesn't research about 16 minutes. The numeral tube shows “E4”	● The water faucet is not open or supplying water is stoped. ● The water inlet valve is blocked.	● Open the water faucet. Push the "Start/Pause" button. ● Clean the water inlet valve . Push the "Start/Pause" button.
In pre-wash , the washer stops running, the numeral tube shows “E5”	The top lid is not closed.	Close the top lid.
The numeral tube shows “E6”	Does the water level sensor contact badly?	Please contact with after-service center
The washer keeps filling water or drains automatically.the numeral tube shows “E7”	Does the water level sensor, inlet valve or computer sequencer bad?	Please contact with after-service center
The numeral tube shows “E8”	Does the temperature sensor bad?	Please contact with after-service center
The machine does not act. (Indicators are off.)	● Is the power off? ● Does the power cord loose?	● Use it when the power is on. ● Insert the power plug tightly.
There's abnormal sound inside the machine.	● Is the machine slanting? ● Is some metal inside the washer? ● Are the laundries slanting in spinning?	● Level the machine properly. ● Fasten the fastener or zip up the zip. ● Re-order the laundries.
The water faucet leaks.	Is the jointer screw of the water inlet hose loose or twisted awry?	Fasten the jointer screw properly.

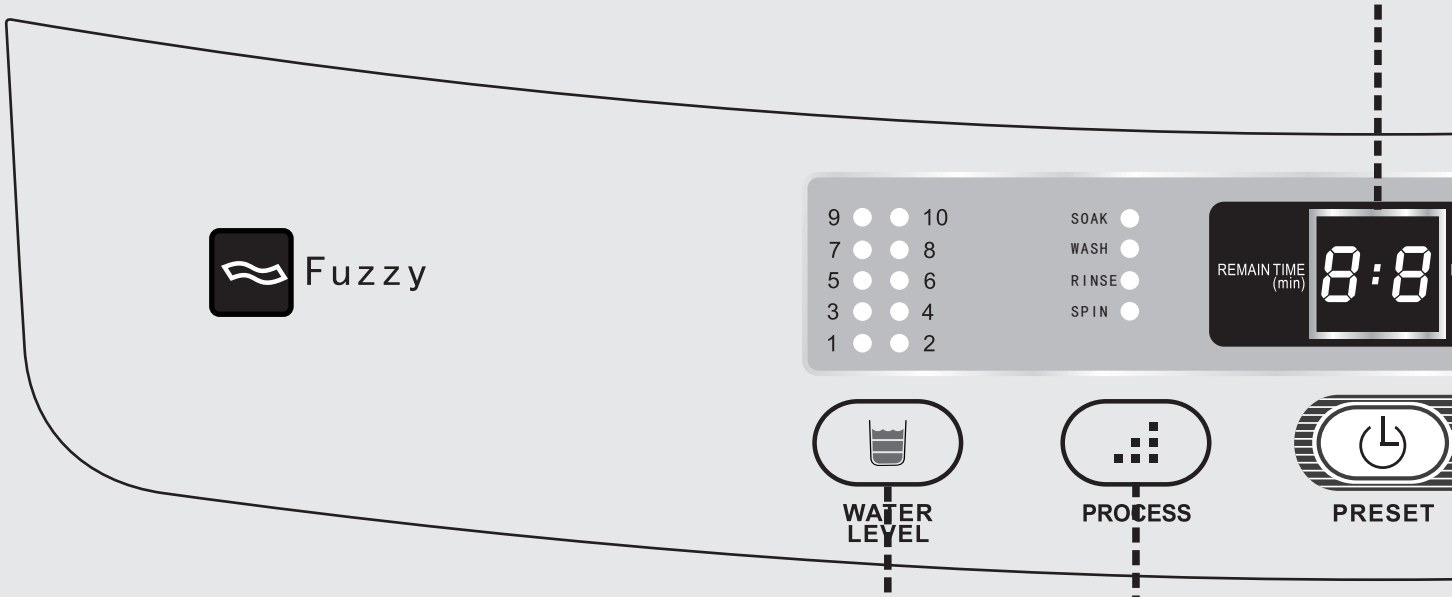
7.USAGE OF THE OPERATION BUTTONS

Indicator mode and meaning

- ● The indicator is off,indicating that the program or mode is not selected
- :○: The indicator is flashing,indicating the running program
- ○ The indicator is on,indicating the program or mode selected and about to run

Digital tube

- ●During operating of program,it displays the remained time(minute)
- ●During the preset program,it displays the remained reserve time(hour)
- ●In abnormal cases,it displays the symbol of the abnormal phenomenon



"Water level"button

- Select suitable water level according to the quantity of the laundries
- When select "speedy",water level can't be selected.
- A long press on this button will re-supply the water till let hand go or the water level reaches the warning level.

"Process"button

- Press this button can select one of the process "soak","wash","rinse"or"spin".
- When select "speedy",Washer sets its own program "wash","rinse"or "spin". Customer can't select.

“Water temp"button

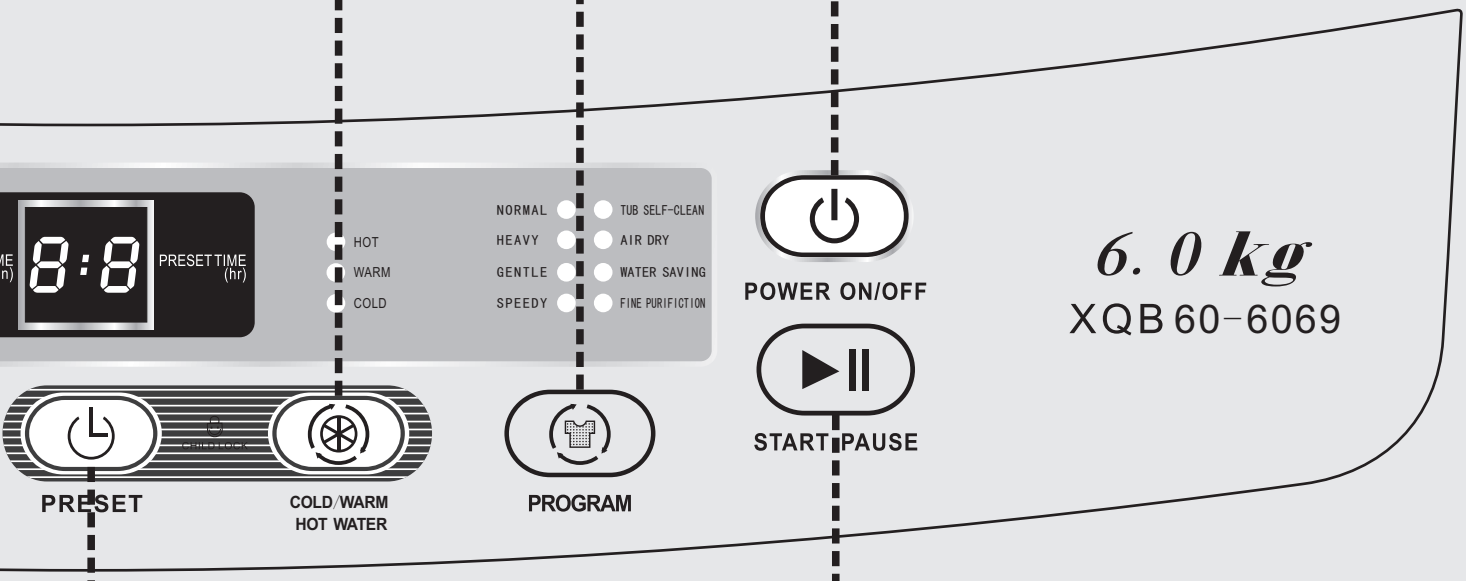
- Push the button once you can select “cold water”,”warm water” or “hot water” mode.
- The “warm water” temperature is presetted about 35 degree and the “hot water” temperature is presetted about 45 degree.

“Program"button

- One or more program is available among the following:normal,heavy,speedy,gentle tub self-clean,air dry,water saving,fine purifiction.

"Power on/off"button

- Push the button once to switch on the power
- When the power is on,push the button once to cut off the power



“Preset"button

- Push the button to select the finish time in the range between 2~24 hours
- After the preset function is enabled,the “preset"and"remained time"indicators are on,the decimal point flashes,the other indicators are off
- After the preset function is enabled, push the “preset" button ,the “preset" state can be shown.

"Start/Pause"button

After switch on the power,push it once to start the washing machine

- In operating,push the button to pause the operating
- In pausing,push the button to resume operating

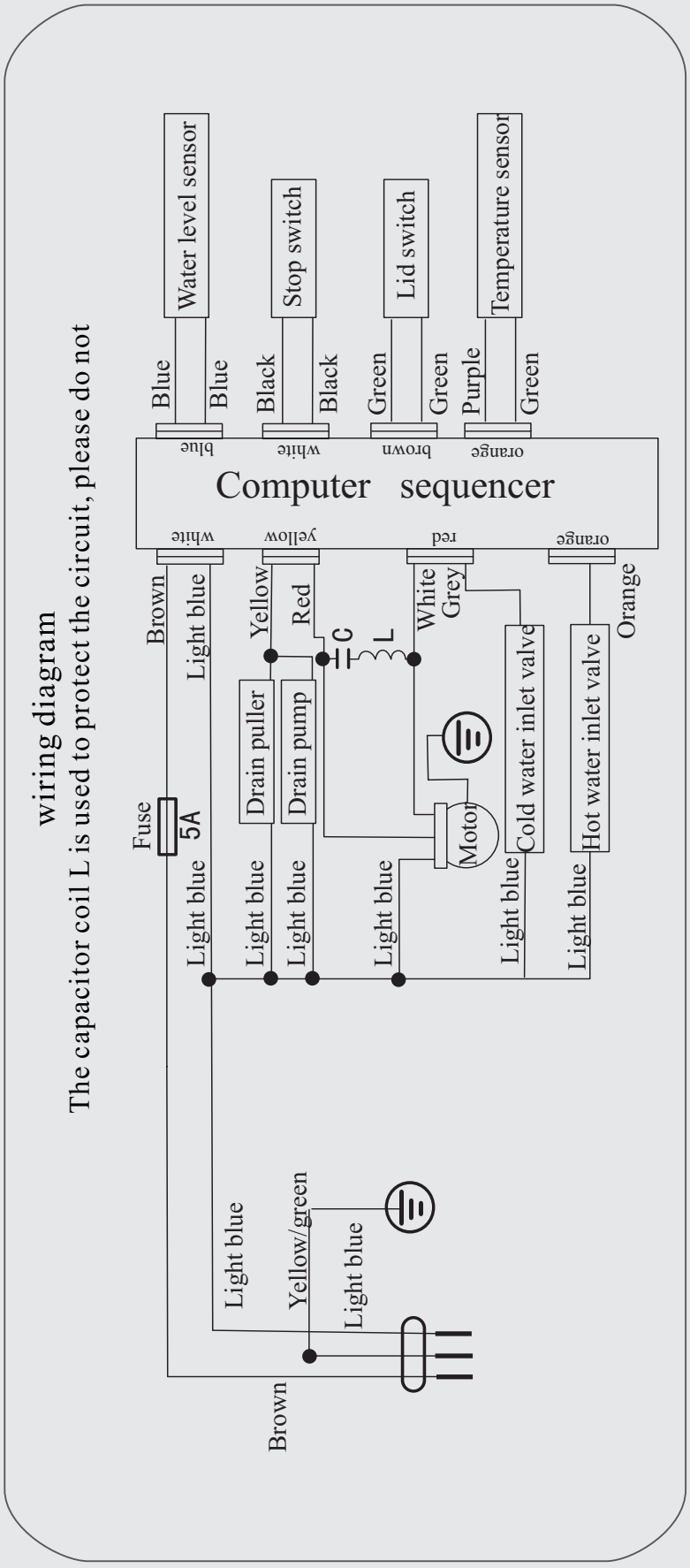
Description:

1.Push the power on/off button to switch on the power.If the washing machine is idle for 5 minutes,it will switch off the power automatically.

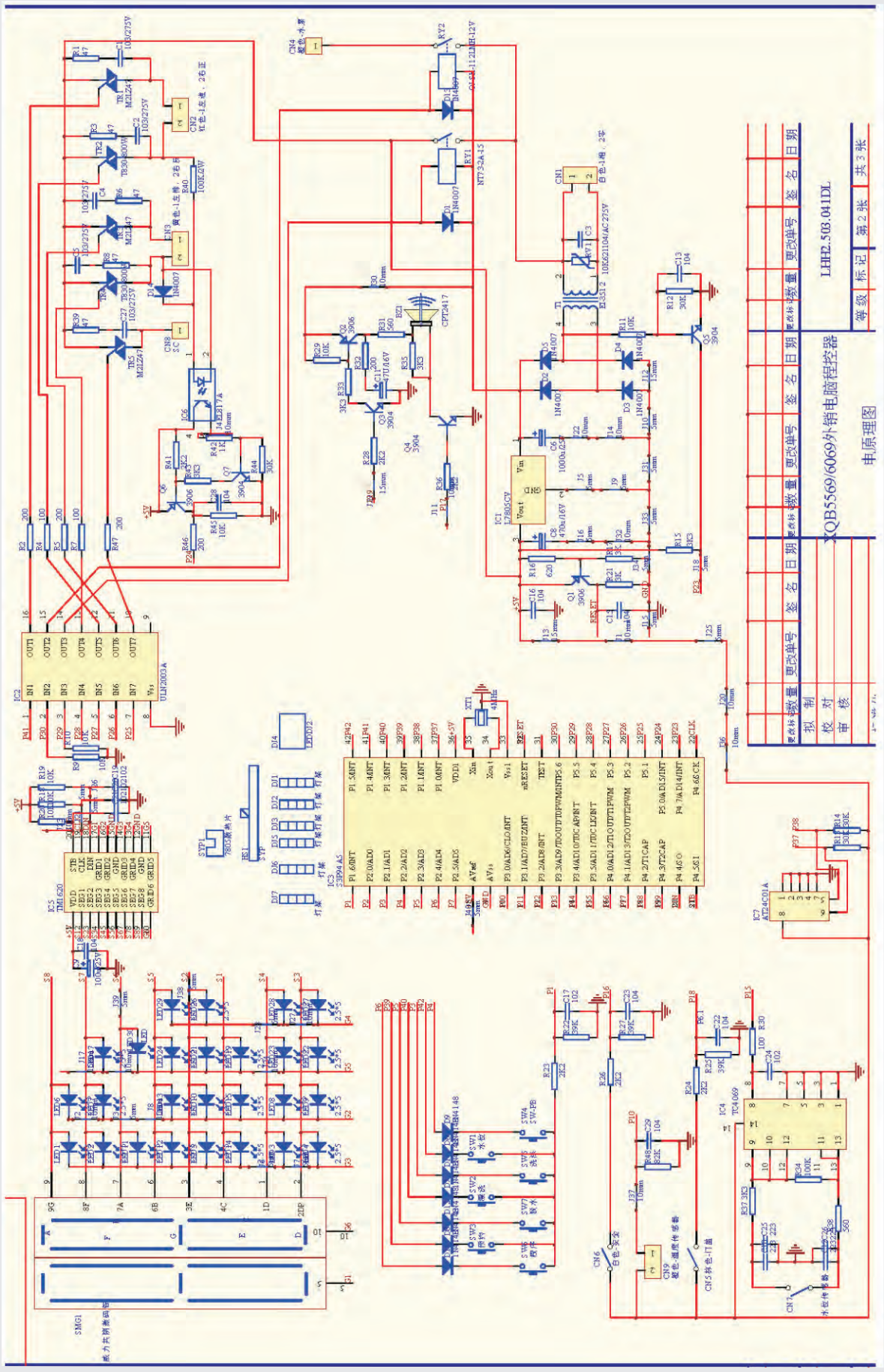
2.In using, first push the power on/off button, then select program. After selection, push the start/pause button to start washing.

8. CIRCUIT DIAGRAM

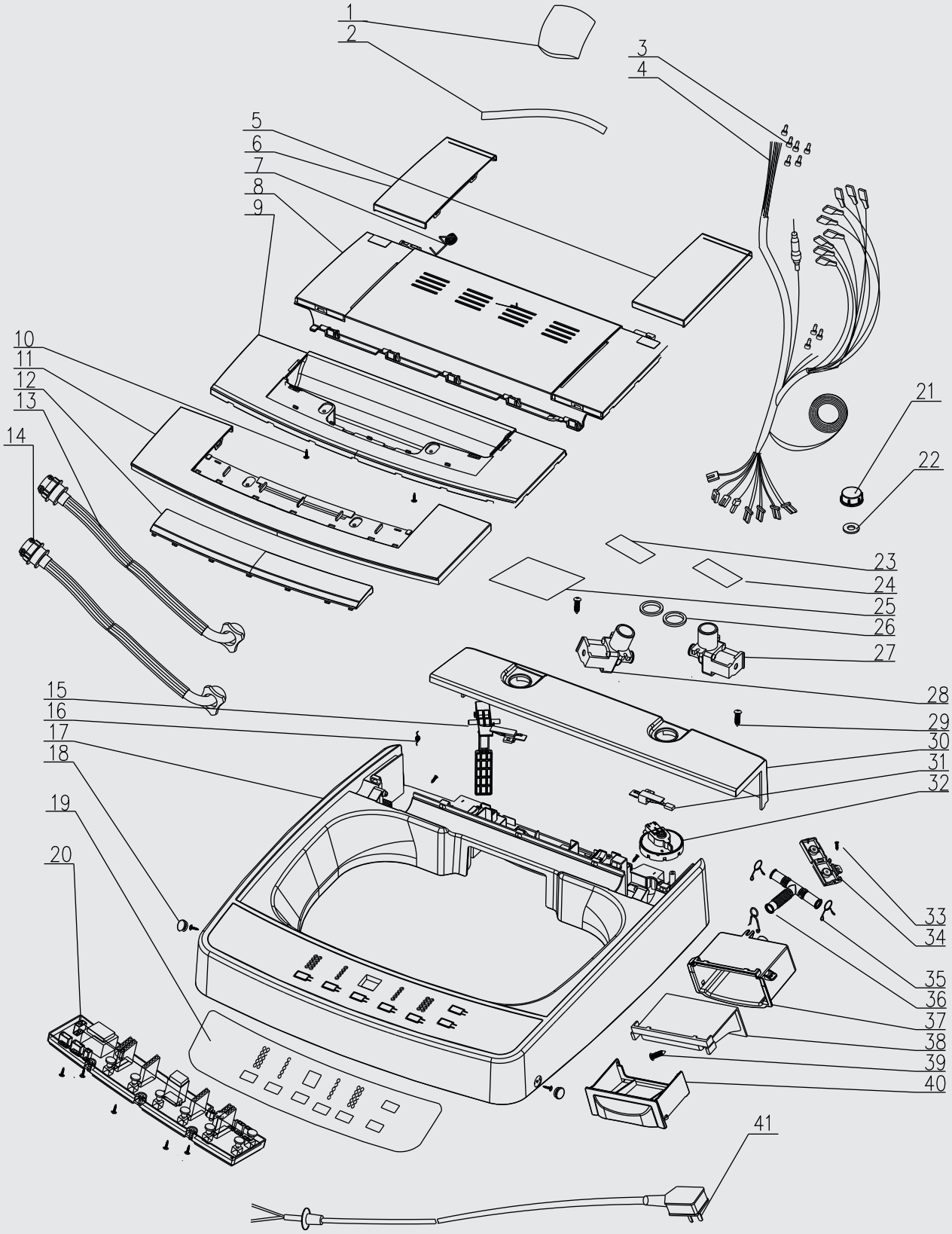
circuit diagram

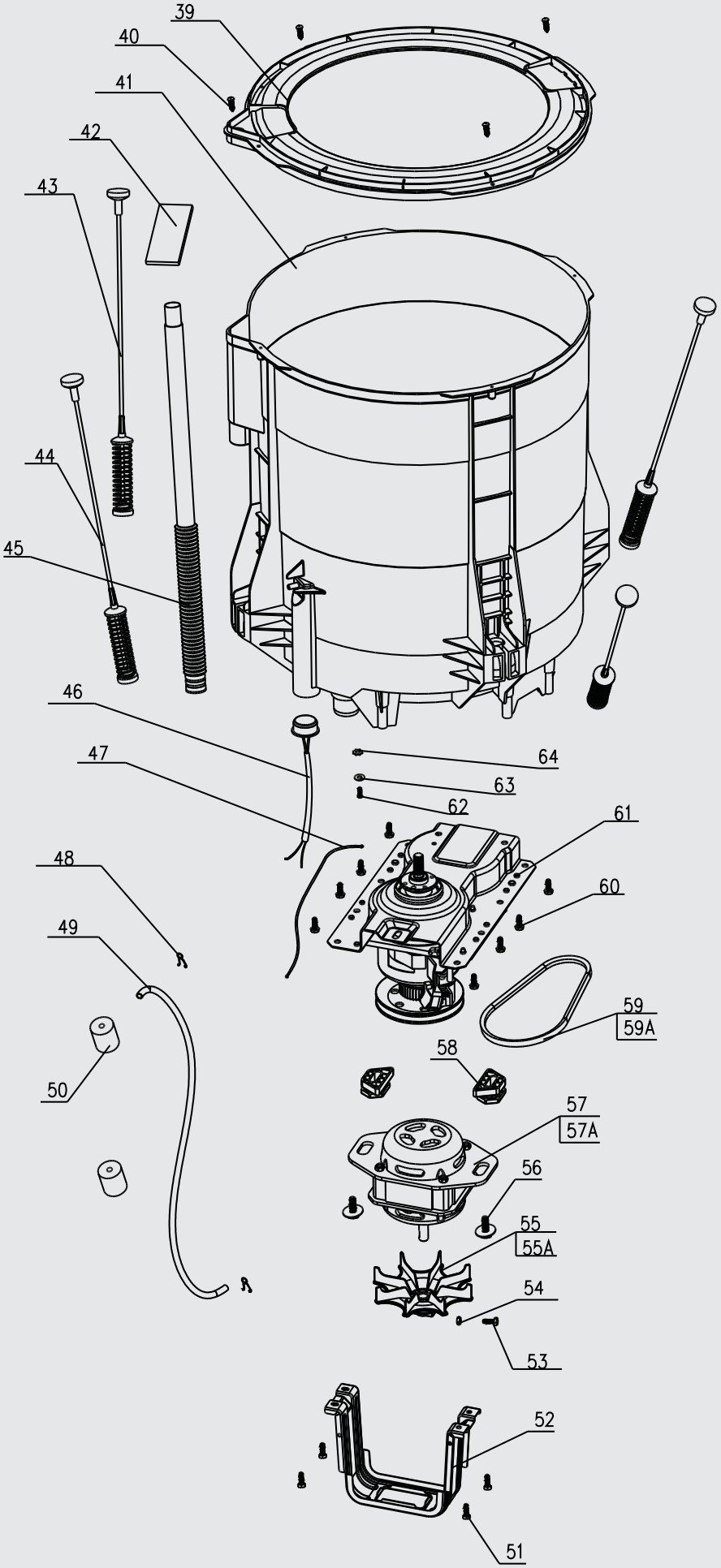


PCB circuit diagram



9. PARTS DIAGRAM

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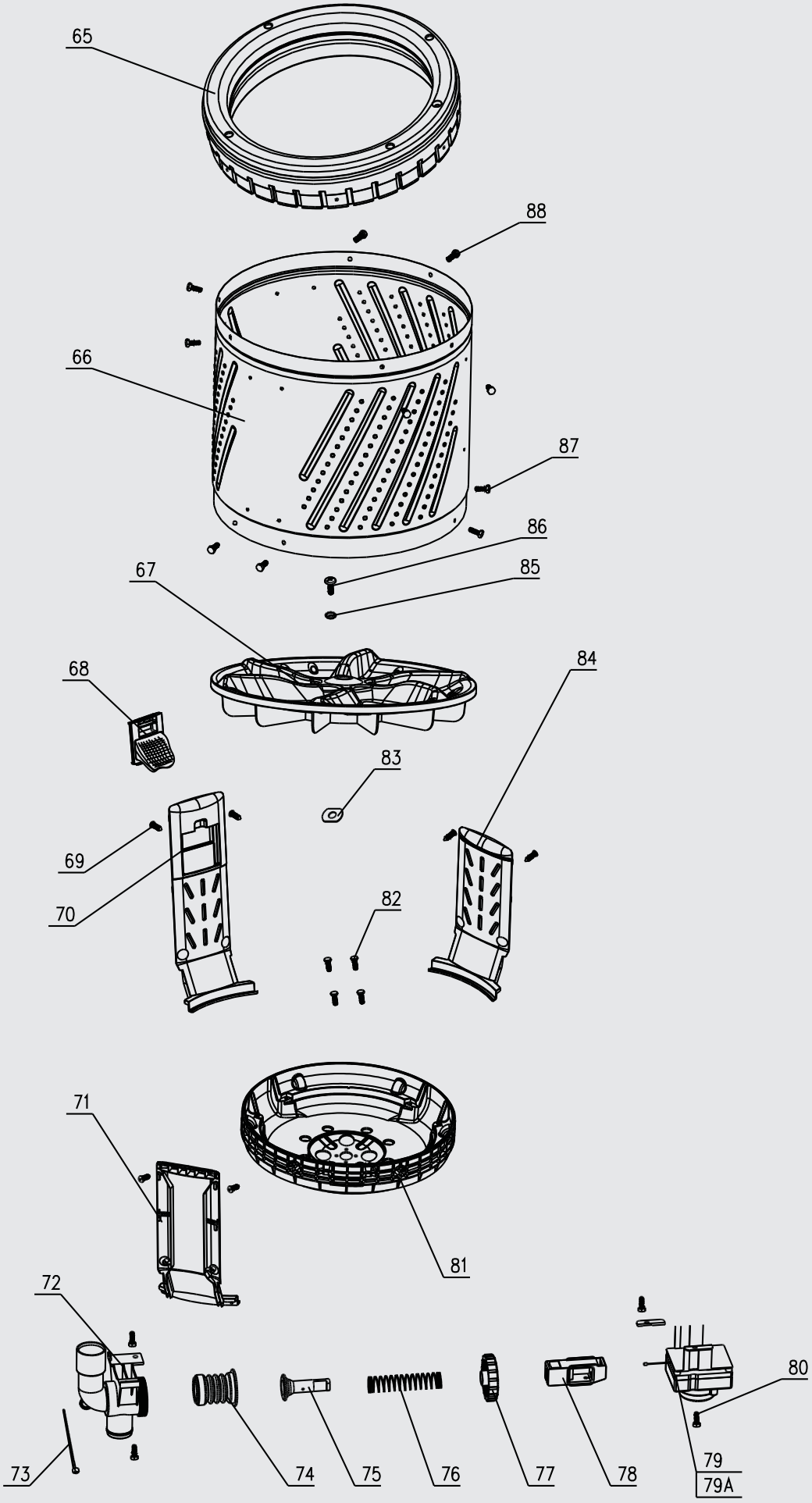
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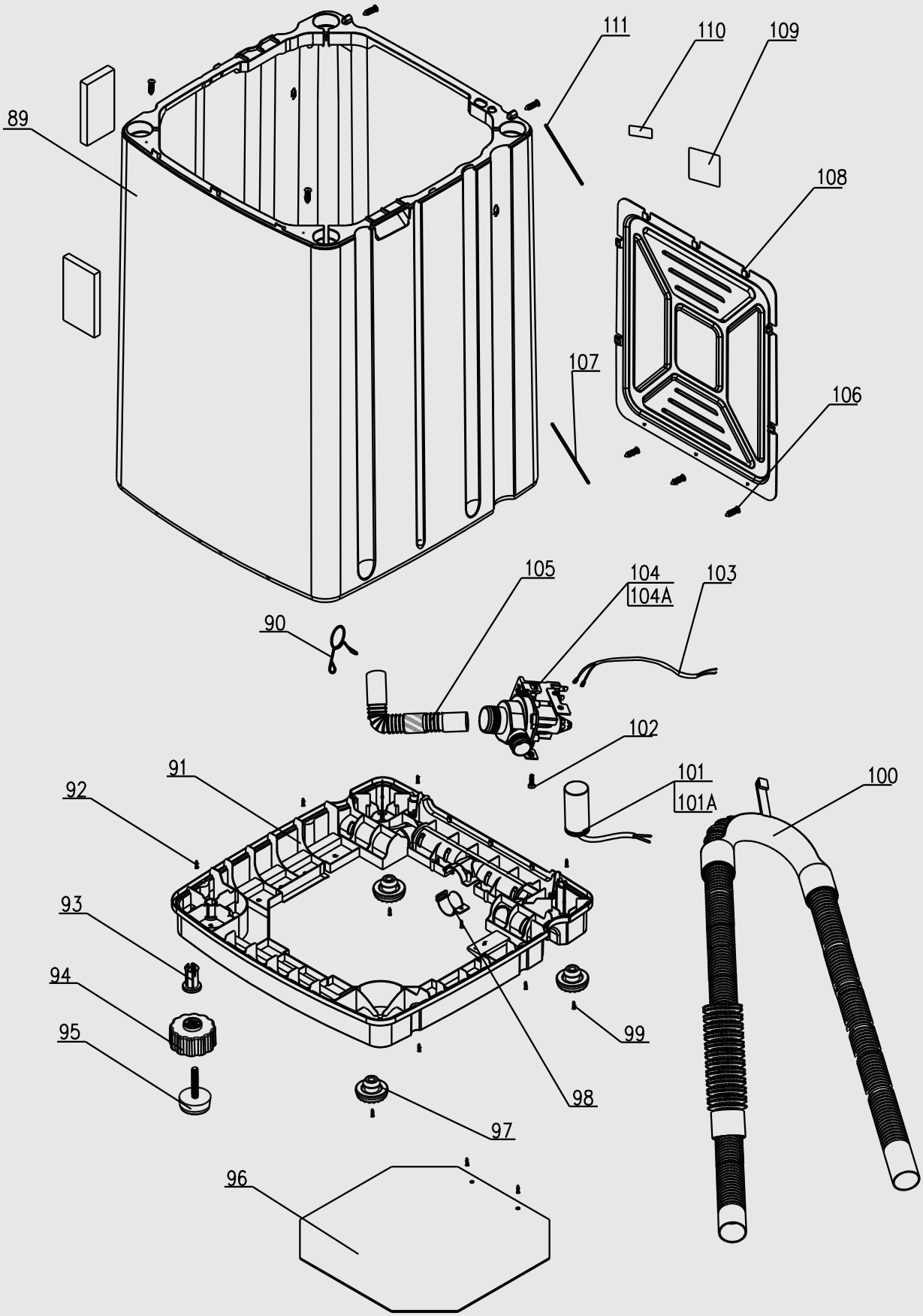
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NO	Name & Spec	Material	Qty
22	cover for water inlet valve	assy	1
21	cool water label	assy	1
20	PCB	assy	1
19	film for control panel	PET	1
18	cover for screw	ABS	1
17	control panel	ABS	1
16	small wring spring	65Mn	1
15	control pole	PP+20%fiberglass	1
14	inlet hose ass'y(hot water)	assy	1
13	inlet hose ass'y(cool water)	assy	1
12	handle for top cover	ABS	1
11	adorn 3	ABS	1
10	ST4X12	C-steel	2
9	transparent top cover	transparent ABS	1
8	transparent top cover	transparent ABS	1
7	spring for top cover	C-steel spring wire	1
6	adorn 2	ABS	1
5	adorn 1	ABS	1
4	electrician tape	assy	/
3	lead ass'y	assy	1
2	joint cap	nylon+aluminium	11
1	protective bag	PE film	1

44	suspension pole ass'y B	assy	2
43	suspension pole ass'y A	assy	2
42	protective mat	pu froth	3
41	power cord	assy	1
40	detergeat box	ABS	1
39	ST4X7	1Cr17	1
38	steady flow board	PP	1
37	water intel box	PP	1
36	water inlet pipe (hot water)	rubber	1
35	spring clamp	carbonic spring steel wire	3
34	box for wiring terminal	PP	1
33	clubs-head self-screw ST4.2x9.5-C-H	C-steel	1
32	water level sensor	assy	1
31	Microswitch	assy	2
30	back control panel	ABS	1
29	ST4X14	C-steel	18
28	water inlet valve (hot water)	assy	1
27	water inlet valve (cool water)	assy	1
26	inlet valve seal washer	EVA	2
25	caution label	PVC	1
24	hot water lable	PVC	1
23	water inlet valve cap	ABS	1
NO	Name & Spec	Material	Qty

NO	Name & Spec	Material	Qty
66	inner tub t0.4	SUS430	1
65	balance ring ass'y	assy	1
64	dentiform washer 5	QSn6.5-0.1	1
63	flat washer 5	H62	1
62	grounding screw M5x12	H62	1
61	clutch	assy	1
60	hexagon-head screw ST6.3x25-F-H	C-steel 15	8
59	v-belt Z-474	polyester	1
58	insulation mat for motor	PP+20%fiberglass	2
57	motor	assy	1
56	motor bolt ass'y M8x38	C-steel 35	2
55	motor pulley	ADC12	1
54	nut M6	C-steel A3	1
53	bolt M6x20	C-steel 35	1
52	shelf for the motor t1.2	galvanization plate	1
51	bolt ass'y M5x14	C-steel 35	4
50	washer for water level adjustable pipe	rubber sponge	2
49	water level adjustable pipe	PVC	1
48	small spring clip ø8	C-steel spring wire	2
47	grounding wire	0.75mm^2	1
46	temperature sensor	assy	1
45	overflow hose	EVA	1

NO	Name & Spec	Material	Qty
88	self-screw ST5.5x16-F-H	stainless steel 1Cr17	6
87	self-screw ST5.5x19-F-H	stainless steel 1Cr17	6
86	pulsator bolt (M6x20)	stainless steel 1Cr17	1
85	pulsator bolt washer(ø6.5)	stainless steel 1Cr17	1
84	waterfall board(high)	PP	1
83	pulsator washer t1.5	stainless steel 1Cr17	1
82	bolt ass'y M6x13	stainless steel 1Cr17	4
81	inner tub bottom	PP	1
80	hexagon-head screw ST6.3x16-F-H	C-steel 15	4
79	drain motor	assy	1
78	pull pole for drain	PP+20%fiberglass	1
77	drain valve cover	PP	1
76	compressed spring	65Mn	1
75	drain valve pipe	PP	1
74	drain valve core	rubber	1
73	nylon packing band 100x2.5	nylon 66	1
72	drain valve house	PP	1
71	waterfall board(low)	PP	1
70	filter seat	PP	1
69	self-screw ST4x7-F-H	stainless steel 1Cr17	6
68	filter	PP	1
67	pulsator	PP	1

NO	Name & Spec	Material	Qty
111	matel bundle wire (short)	assy	1
110	bar code	non-dry paster	1
109	rating label	polyester foil	1
108	back cover	PP	1
107	matel bundle wire (long)	assy	1
106	self-screw ST4x10-F-H	C-steel 15	5
105	joint pipe for pump	EVA	1
104	up drain pump	assy	1
103	lead wire	assy	1
102	bolt ass'y M6x14	assy	1
101	condenser 12μF	assy	1
100	drain hose	assy	1
99	self-screw ST5.5x19-F-H	C-steel 15	3
98	cover for drain hole	pp	1
97	stand foot	rubber	3
96	bottom cover	PP hollow plate	1
95	adjustable foot	rubber	1
94	nut for adjustable foot	ABS	1
93	fastness base for adjustable foot	PA66+30%GF	1
92	self-screw ST4x16-C-H	C-steel 15	7
91	base	PP	1
90	drain joint clip ø32.5	carbonic spring steel wire	1
89	cabinet	PP	1

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